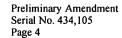
modifying a portion of said coding sequence to yield a modified sequence which contains a greater number of codons preferred by the intended plant host than did said coding sequence and fewer plant polyadenylation signals than said coding sequence.

- 40. A synthetic gene which is derived from a *Bacillus thuringiensis* insecticidal protein toxin gene and which is more highly expressed in plants, wherein the coding sequence of said synthetic gene is modified to contain:
 - a) a greater number of codons preferred by the intended plant host than said insecticidal protein toxin gene; and
 - b) fewer polyadenylation signal sequences than said insecticidal protein toxin gene.
- 41. A modified chimeric gene comprising a promoter which functions in plant cells operably linked to a structural coding sequence and a 3' non-translated region comprising a polyadenylation signal which functions in plants to cause the addition of polyadenylate nucleotides to the 3' end of the RNA, wherein said structural coding sequence encodes an insecticidal protein derived from *B.t. tenebrionis*, said structural coding sequence comprising the following sequence:

1	ATGACTGCAGACAACACCGAAGCCCTCGACAGTTCTA	40
41	CCACTAAGGATGTTATCCAGAAGGGTATCTCCGTTGTGGG	80
81	AGACCTCTTGGGCGTGGTTGGATTTCCCTTCGGTGGAGCC	120
121	CTCGTGAGCTTCTATACAAACTTTCTCAACACCATTTGGC	160
161	CAAGCGAGGACCCTTGGAAAGCATTCATGGAGCAAGTTGA	200
201	AGCTCTTATGGATCAGAAGATTGCCAGATTATGCCAAGAAC	240
241	AAGGCTTTGGCAGAACTCCAGGGCCTTCAGAACAATGTGG	280
281	AGGACTACGTGAGTGCATTGTCCAGCTGGCAGAAGAACCC	320





1361	TCAACATGATCGATAGCAAGAAGATCACTCAACTTCCCTT	1400
1401	GGTGAAAGCCTACAAGCTGCAATCTGGTGCTTCCGTTGTC	1440
1441	GCAGGTCCCAGATTCACTGGAGGTGACATCATCCAGTGCA	1480
1481	CAGAGAACGCCAGCCAGCTACTATCTACGTGACACCTGA	1520
1521	TGTGTCTTACTCTCAGAAGTACAGGGCACGTATTCATTAC	1560
1561	GCATCTACCAGCCAGATCACCTTCACACTCAGCTTGGATG	1600
1601	GAGCACCCTTCAACCAGTATTACTTTGACAAGACCATCAA	1640
1641	CAAAGGTGACACTCTCACATACAATAGCTTCAACTTGGCA	1680
1681	AGTTTCAGCACCACTTTGAACTCTCAGGCAACAATCTTC	1720
1721	AGATCGGCGTCACCGGTCTCAGCGCCGGAGACAAAGTCTA	1760
1761	CATCGACAAGATTGAGTTCATCCCAGTGAAC 1791.	

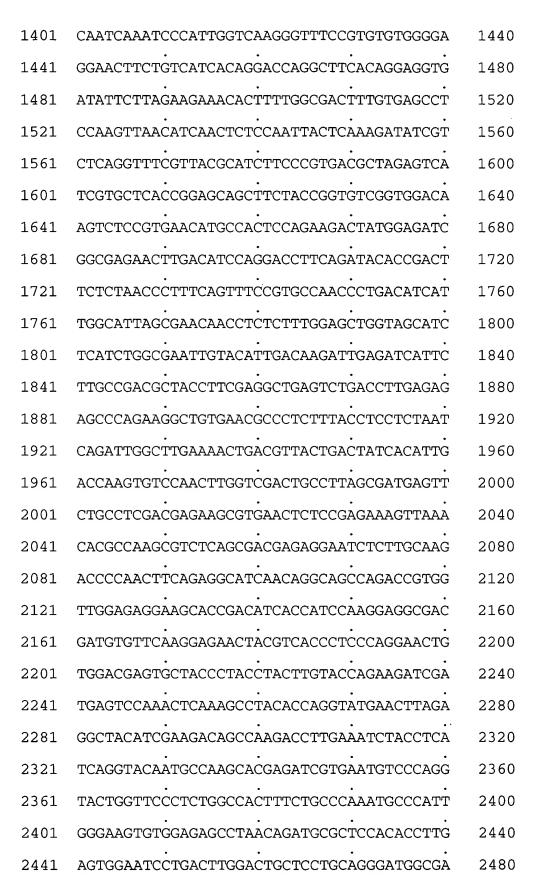
42. A modified chimeric gene comprising a promoter which functions in plant cells operably linked to a structural coding sequence and a 3' non-translated region comprising a polyadenylation signal which functions in plants to cause the addition of polyadenylate nucleotides to the 3' end of the RNA, wherein said structural coding sequence encodes an insecticidal protein derived from *B.t. entomocidus*, said structural coding sequence comprising the following sequence:

1	ATGGAGGAGAACAACCAAAACCAATGCATTCCATACAACT	40
41	GCTTGAGTAACCCAGAAGAGGTATTGCTTGATGGAGAACG	80
81	CATTTCAACCGGTAACTCTTCCATCGACATCTCCTTGTCC	120
121	TTGGTCCAGTTTCTGGTCAGCAACTTCGTGCCAGGTGGTG	160
161	GGTTCCTTGTCGGACTAATTGACTTCGTCTGGGGTATCGT	200
201	TGGTCCATCTCAATGGGATGCATTCCTGGTGCAAATTGAG	240
241	CAGTTGATCAACGAGAGGATCGCTGAGTTCGCCAGGAACG	280
281	CTGCCATCGCTAACTTGGAAGGATTGGGCAATAACTTCAA	320
321	CATCTATGTGGAGGCCTTCAAAGAGTGGGAAGAGGACCCT	360



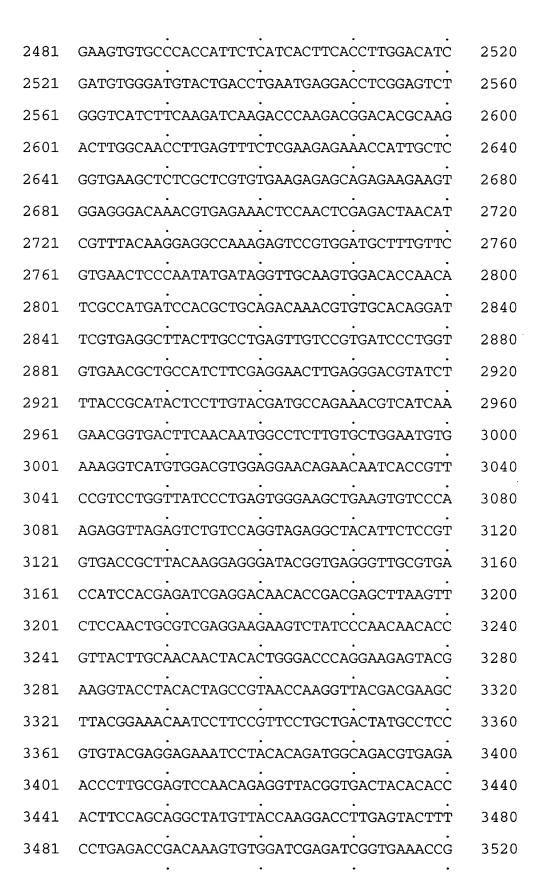


361	AACAACCCAGAGACCCGCACTAGGGTGATCGACAGATTCA	400
401	GAATCTTGGACGCCTCTTGGAGAGAGATATCCCATCCTT	440
441	CAGAATCTCTGGCTTCGAAGTTCCTCTCTTGTCCGTGTAC	480
481	GCTCAAGCAGCTAATCTTCACCTCGCTATCCTTCGAGACA	520
521	GTGTCATCTTTGGGGAAAGGTGGGGATTGACCACTATCAA	560
561	CGTCAATGAGAATTACAACAGACTTATCAGGCACATTGAC	600
601	GAGTACGCCGACCACTGTGCTAACACCTACAACCGTGGCT	640
641	TGAACAATCTCCCTAAGTCTACTTATCAAGATTGGATTAC	680
681	CTACAACAGGTTGAGGAGAGACTTGACCCTCACAGTTTTG	720
721	GACATTGCAGCTTTCTTCCCGAACTATGACAACAGGAGAT	760
761	ACCCTATCCAACCAGTGGGTCAACTTACCAGAGAAGTCTA	800
801	TACTGACCCACTTATCAACTTCAACCCTCAGTTGCAAAGT	840
841	GTCGCCCAACTTCCCACATTCAACGTCATGGAGTCCAGCC	880
881	GTATCAGGAACCCACACTTGTTTGACATCTTGAACAACCT	920
921	TACTATCTTCACCGATTGGTTCAGCGTTGGGCGTAACTTC	960
961	TATTGGGGTGGACACAGGGTCATCTCCTCTTTATTGGAG	1000
1001	GTGGGAACATTACCTCTCCTATCTATGGACGTGAGGCAAA	1040
1041	CCAGGAGCCACCACGTAGTTTCACCTTCAACGGTCCAGTC	1080
1081	TTCAGAACCTTGTCTAACCCTACCTTGAGATTGCTCCAGC	1120
1121	AACCTTGGCCAGCTCCACCTTTCAACCTTAGAGGTGTTGA	1160
1161	GGGCGTTGAGTTCTCTACTCCTACCAACTCCTTCACTTAC	1200
1201	AGAGGTAGAGGAACCGTTGATTCCTTGACCGAACTCCCAC	1240
1241	CAGAGGACAATAGCGTGCCACCCAGGGAAGGCTACTCCCA	1280
1281	CAGGTTGTGCCACGCAACCTTCGTGCAGCGTTCCGGAACT	1320
1321	CCATTCCTCACTACAGGAGTTGTGTTCTCATGGACTGATC	1360
1361	GTAGTGCTACTCACTAATACCATTGATCCCGAGAGGAT	1400





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- 3521 AGGGAACCTTCATCGTGGACAGCGTGGAGCTTCTCTTGAT 3560
 3561 GGAGGAA 3567.
- 43. A modified chimeric gene comprising a promoter which functions in plant cells operably linked to a structural coding sequence and a 3' non-translated region comprising a polyadenylation signal which functions in plants to cause the addition of polyadenylate nucleotides to the 3' end of the RNA, wherein said structural coding sequence encodes a *B.t.* P2 insecticidal protein, said structural coding sequence comprising the following sequence:

V

1	ATGGACAACAACGTCTTGAACTCTGGTAGAACAACCATCT	40
41	GCGACGCATACAACGTCGTGGCTCACGATCCATTCAGCTT	80
81	CGAACACAAGAGCCTCGACACTATTCAGAAGGAGTGGATG	120
121	GAATGGAAACGTACTGACCACTCTCTCTACGTCGCACCTG	160
161	TGGTTGGAACAGTGTCCAGCTTCCTTCTCAAGAAGGTCGG	200
201	CTCTCTCATCGGAAAACGTATCTTGTCCGAACTCTGGGGT	240
241	ATCATCTTTCCATCTGGGTCCACTAATCTCATGCAAGACA	280
281	TCTTGAGGGAGACCGAACAGTTTCTCAACCAGCGTCTCAA	320
321	CACTGATACCTTGGCTAGAGTCAACGCTGAGTTGATCGGT	360
361	CTCCAAGCAAACATTCGTGAGTTCAACCAGCAAGTGGACA	400
401	ACTTCTTGAATCCAACTCAGAATCCTGTGCCTCTTTCCAT	440
441	CACTTCTTCCGTGAACACTATGCAGCAACTCTTCCTCAAC	480
481	AGATTGCCTCAGTTTCAGATTCAAGGCTACCAGTTGCTCC	520
521	TTCTTCCACTCTTTGCTCAGGCTGCCAACATGCACTTGTC	560
561	CTTCATACGTGACGTGATCCTCAACGCTGACGAATGGGGA	600
601	ATCTCTGCAGCCACTCTTAGGACATACAGAGACTACTTGA	640
641	GGAACTACACTCGTGATTACTCCAACTATTGCATCAACAC	680
681	TTATCAGACTGCCTTTCGTGGACTCAATACTAGGCTTCAC	720

